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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/943,956	08/31/2001	Harry Tang	00982	2042	
26285	7590 11/29/2005		EXAMINER		
KIRKPATR	UCK & LOCKHART N	IICHOLSON GRAHAM LLP	LEE, ANDREW CHUNG CHEUNG		
	FIELD STREET GH, PA 15222	ADTIBUT DADED MILM		PAPER NUMBER	
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			DATE MAILED: 11/29/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	4,
	09/943,956	TANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Andrew C. Lee	2664	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. apply be timely filed THS from the mailing date of this comm ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 0	2 September 2005.		
2a)⊠ This action is FINAL . 2b)□ 1	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal matte	ers, prosecution as to the m	erits is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-32 is/are pending in the applicat	tion.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5)⊠ Claim(s) <u>1-10,31 and 32</u> is/are allowed.			
6)⊠ Claim(s) <u>11-30</u> is/are rejected.		,	
7) Claim(s) <u>12,13,18,19,27 and 29</u> is/are obje			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exan	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b)□ objected to l	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	rrection is required if the drawing(s) is objected to. See 37 CFR	1.121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
 12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 		119(a)-(d) or (f).	
2. Certified copies of the priority docum	ents have been received in A	pplication No	
3. Copies of the certified copies of the	priority documents have been	received in this National Sta	age
application from the International Bu			
* See the attached detailed Office action for a	list of the certified copies not	received.	
Attachment(s)			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🗍 Interview S	ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date	· · · · · · · · · · · · · · · · · · ·
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 	5) ☐ Notice of Ir 6) ☐ Other:	nformal Patent Application (PTO-15 —·	04)

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 11, 14 17, 20, 21, 23, 25, 26, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yim et al. (US 6580727 B1) in view of the Article "Efficient Implementation of Semaphores in Controller Area Networks" by Cena et al., Industrial Electronics, IEEE Transactions on, Volume 46, Issue 2, April 1999, PP417- 428.

Regarding claim 11, Yim et al. disclose the limitation of a method of providing ADSL provision flow control at a DSLAM switch (Fig.1, column 1, 40 – 48, 55 – 63), comprising: sending a provision request from a network management system to a DSLAM switch (column 9, lines 33 – 37; column 10, lines 10 – 16; lines 48 – 50; column 12, lines 64 – 67); determining whether a DSLAM level semaphore is available at the DSLAM switch (column 11, lines 7 – 12; lines 26 – 36); determining whether an element management system level semaphore is available (column 11, lines 48 – 54); and connecting the network management system to the DSLAM switch (column 12, lines 7 – 18). (It is noticed that the Article by Cena et al. disclose the limitation of semaphore (page 418, Third paragraph, lines 19 – 29)).

Regarding claims 14, 30, Yim et al. disclose the limitation of the method according to claimed further comprising determining whether a connection is being configured on a corresponding DSLAM switch when the DSLAM level semaphore is available at the DSLAM switch (column 11, lines 26 – 36; column 12, lines 55 – 63).

Regarding claim 15, Yim et al. disclose the limitation of a method of providing ADSL provision flow control at a DSLAM switch, comprising: sending a provision request from a network management system to a DSLAM switch (column 9, lines 33 - 37; column 10, lines 10 – 16; lines 48 - 50); Yim et al. does not disclose expressly the method according to claimed further comprising locking the level semaphore to the switch when a connection is being configured on the DSLAM. The Article by Cena et al. discloses the limitation of the method according to claimed further comprising locking the level semaphore to the switch when a connection is being configured on the DSLAM (page 420, first column, first paragraph, lines 1-16). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Yim et al. to include the method according to claimed further comprising locking the DSLAM level semaphore to the DSLAM switch when a connection is being configured on the DSLAM such as that taught by the Article (by Cena et al.) in order to provide the application designer with a powerful support with which to synchronize the concurrent activities and offers a high degree of reliability and efficiency at the same time.

Regarding claim 16, Yim et al. disclose the limitation of the method according to claimed further comprising blocking other connection requests on the DSLAM switch when a connection request is being configured on the DSLAM switch (column 9, lines 33 – 42).

Regarding to claim 17, Yim et al. disclose the limitation of a method of providing ADSL provision flow control at a DSLAM switch, comprising: sending a provision request from a network management system to a DSLAM switch (column 9, lines 33 – 37; column 10, lines 10 – 16; lines 48 - 50); Yim et al. do not disclose expressly the method according to claimed further comprising releasing the level semaphore when the element management system semaphore is not available. The Article by Cena et al. discloses the limitation of the method according to claimed further comprising releasing the level semaphore when the element management system semaphore is not available (page 421, Fig. 3, second column, lines 10 - 27). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Yim et al. to include the method according to claimed further comprising releasing the level semaphore when the element management system semaphore is not available such as that taught by the Article (by Cena et al.) in order to provide the application designer with a powerful support with which to synchronize the concurrent activities and offers a high degree of reliability and efficiency at the same time.

Regarding claim 20, Yim et al. disclose the limitation of a method of providing ADSL provision flow control at a DSLAM switch (Fig.1, column 1, 40 - 48, 55 - 63), comprising: determining whether a provision request for a DSLAM switch was issued by a GUI operator (column 10, lines 35 - 37, lines 48 - 50); and resetting an attribute associated with the provision request made by the GUI operator (column 12, lines 40 - 46).

Regarding claim 21, Yim et al. disclose the limitation of a method according to claimed wherein resetting an attribute comprises resetting an object associated with the

provision request made by the GUI operator (column 10, lines 35 - 37, lines 48 - 50; column 12, lines 40 - 46).

Regarding claim 28, Yim et al. disclose the limitations of a computer program product comprising a computer readable medium having control logic stored therein for causing a computer to provide ADSL provision flow control at the DSLAM switch (Fig. 3, column 4, lines 62 – 67; column 6, lines 23 – 67; column 7, lines 1 – 15), the control logic comprising computer-readable program code for causing the computer to: send a provision request to the DSLAM switch to establish a virtual circuit (column 9, lines 33 – 37; column 10, lines 10 – 16; lines 48 – 50; column 12, lines 64 – 67); determine whether a DSLAM level semaphore is available at the DSLAM switch (column 11, lines 7 – 12; lines 26 – 36); determine whether an element management system level semaphore is available (column 11, lines 48 – 54); and connect a connect a network management system to the DSLAM switch in response the DSLAM level semaphore and the element management system level semaphore being available (column 12, lines 7 – 18).

3. Claims 23, 25, 26, 22, 24, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yim et al. (US 6580727 B1) and the Article "Efficient Implementation of Semaphores in Controller Area Networks" by Cena et al., Industrial Electronics, IEEE Transactions on, Volume 46, Issue 2, April 1999, PP417-428 as applied to claims 11, 14 – 17, 20, 21, 23, 25, 26, above, and further in view of Tang et al. (US 6885672 B1).

Regarding claims 23, 25, 26, both Yim et al. and the Article by Cena et al. do not disclose expressly the system according to claimed further comprising determining whether there is a batch process provision that a batch process is requesting activity on the DSLAM switch. Tang et al. disclose the limitation of the system according to claimed further comprising a second object defined by the network management system for representing that a batch process is requesting activity on the DSLAM switch (column 1, lines 42 – 45). It would have been obvious to one of ordinary skill in the art at the time the invention was made modify both Yim et al. and the Article by Cena et al. to include a system according to claimed further comprising a second object defined by the network management system for representing that a batch process is requesting activity on the DSLAM switch such as that taught by Tang et al. in order to provide a system and method for provisioning virtual circuit orders on a telecommunications network.

Regarding claims 22, 24, both Yim et al. and the Article by Cena et al. do not disclose expressly the method according to claimed wherein determining whether a provision request was issued by a GUI operator comprises determining whether a GUI request flag is set. Tang et al. disclose the limitation of the method according to claimed wherein determining whether a provision request was issued by a GUI operator comprises determining whether a GUI request flag is set (column 4, lines 49 – 51). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify both Yim et al. and the Article by Cena et al. to include a method according to claimed wherein determining whether a provision request was issued by a GUI operator comprises determining whether a GUI request flag is set such as that taught by Tang et al. in order to

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provide a system and method for provisioning virtual circuit orders on a telecommunications network.

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Allowable Subject Matter

4. Claims 1-5, 6-10, 31-32 are allowed over prior arts.

Prior art of record does not disclose, in single or in combination, the claimed a control algorithm for controlling ADSL provision flow on a DSLAM switch by introducing a two level semaphore including a first semaphore and a second semaphore; where the first semaphore controls a first provision request flow at the element management system level and the second semaphore controls a second provision request flow at the DSLAM switch level as disclosed in claims 1, 6 and 31.

5. Claims 12, 13, 18, 19, 27, 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Prior art of record does not disclose, in single or in combination, the claimed delaying when the DSLAM level semaphore is not available; delay for 10 – 15 seconds.

Response to Arguments

6. Applicant's arguments with respect to claims 1 - 32 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

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7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Lee whose telephone number is (571) 272-3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent

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access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-

217-9197 (toll-free).

Ajit Patel Primary Examiner

ACL

Nov 17, 2005